



OIKE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,534

DATE: 02/07/2002

TIME: 09:06:46

Input Set : N:\Crif3\RULE60\10044534.raw

Output Set: N:\CRF3\02072002\J044534.raw

ENTERED

1 <110> APPLICANT: Le, Junming
2 Vilcek, Jan
3 Daddona, Peter
4 Ghrayeb, John
5 Knight, David M.
6 Siegel, Scott
7 <120> TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
8 Human Tumor Necrosis Factor
9 <130> FILE REFERENCE: 0975.1005-013
10 <140> CURRENT APPLICATION NUMBER: 10/044,534
11 <141> CURRENT FILING DATE: 2002-01-10
13 <150> PRIOR APPLICATION NUMBER: 09/927,703
14 <151> PRIOR FILING DATE: 2001-08-10
16 <150> PRIOR APPLICATION NUMBER: U.S. 09/756,398
17 <151> PRIOR FILING DATE: 2001-01-08
18 <150> PRIOR APPLICATION NUMBER: U.S. 09/133,119
19 <151> PRIOR FILING DATE: 1998-08-12
20 <150> PRIOR APPLICATION NUMBER: U.S. 08/570,674
21 <151> PRIOR FILING DATE: 1995-12-11
22 <150> PRIOR APPLICATION NUMBER: U.S. 08/324,799
23 <151> PRIOR FILING DATE: 1994-10-18
24 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,102
25 <151> PRIOR FILING DATE: 1994-02-04
26 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,861
27 <151> PRIOR FILING DATE: 1994-02-04
28 <150> PRIOR APPLICATION NUMBER: U.S. 08/192,093
29 <151> PRIOR FILING DATE: 1994-02-04
30 <150> PRIOR APPLICATION NUMBER: U.S. 08/010,406
31 <151> PRIOR FILING DATE: 1993-01-29
32 <150> PRIOR APPLICATION NUMBER: U.S. 08/013,413
33 <151> PRIOR FILING DATE: 1993-02-02
34 <150> PRIOR APPLICATION NUMBER: U.S. 07/943,852
35 <151> PRIOR FILING DATE: 1992-09-11
36 <150> PRIOR APPLICATION NUMBER: U.S. 07/853,606
37 <151> PRIOR FILING DATE: 1992-03-18
38 <150> PRIOR APPLICATION NUMBER: U.S. 07/670,827
39 <151> PRIOR FILING DATE: 1991-03-18
40 <160> NUMBER OF SEQ ID NOS: 19
41 <170> SOFTWARE: FastSEQ for Windows Version 4.0
43 <210> SEQ ID NO: 1
44 <211> LENGTH: 157
45 <212> TYPE: PRT
46 <213> ORGANISM: Homo sapiens

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,534

DATE: 02/07/2002

TIME: 09:06:46

Input Set : N:\Crif3\RULE60\10044534.raw

Output Set: N:\CRF3\02072002\J044534.raw

47 <400> SEQUENCE: 1

```

48   Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His Val
49       1           5           10           15
50   Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn Arg Arg
51       20           25           30
52   Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp Asn Gln Leu
53       35           40           45
54   Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser Gln Val Leu Phe
55       50           55           60
56   Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu Leu Thr His Thr Ile
57       65           70           75           80
58   Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys Val Asn Leu Leu Ser Ala
59       85           90           95
60   Ile Lys Ser Pro Cys Gln Arg Glu Thr Pro Glu Gly Ala Glu Ala Lys
61       100          105          110
62   Pro Trp Tyr Glu Pro Ile Tyr Leu Gly Gly Val Phe Gln Leu Glu Lys
63       115          120          125
64   Gly Asp Arg Leu Ser Ala Glu Ile Asn Arg Pro Asp Tyr Leu Asp Phe
65       130          135          140
66   Ala Glu Ser Gly Gln Val Tyr Phe Gly Ile Ile Ala Leu
67       145          150          155

```

69 <210> SEQ ID NO: 2

70 <211> LENGTH: 321

71 <212> TYPE: DNA

72 <213> ORGANISM: Mus Balb/c

73 <220> FEATURE:

74 <221> NAME/KEY: CDS

75 <222> LOCATION: (1)...(321)

76 <400> SEQUENCE: 2

```

77   gac atc ttg ctg act cag tct cca gcc atc ctg tct gtg agt cca gga      48
78   Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
79       1           5           10           15
80   gaa aga gtc agt ttc tcc tgc agg gcc agt cag ttc gtt ggc tca agc      96
81   Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
82       20           25           30
83   atc cac tgg tat cag caa aga aca aat ggt tct cca agg ctt ctc ata     144
84   Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
85       35           40           45
86   aag tat gct tct gag tct atg tct ggg atc cct tcc agg ttt agt ggc     192
87   Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
88       50           55           60
89   agt gga tca ggg aca gat ttt act ctt agc atc aac act gtg gag tct     240
90   Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
91       65           70           75           80
92   gaa gat att gca gat tat tac tgt caa caa agt cat agc tgg cca ttc     288
93   Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
94       85           90           95
95   acg ttc ggc tcg ggg aca aat ttg gaa gta aaa                        321
96   Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys

```

RAW SEQUENCE LISTING

DATE: 02/07/2002

PATENT APPLICATION: US/10/044,534

TIME: 09:06:46

Input Set : N:\Crif3\RULE60\10044534.raw

Output Set: N:\CRF3\02072002\J044534.raw

```

97          100          105
99 <210> SEQ ID NO: 3
100 <211> LENGTH: 107
101 <212> TYPE: PRT
102 <213> ORGANISM: Mus Balb/c
103 <400> SEQUENCE: 3
104   Asp Ile Leu Leu Thr Gln Ser Pro Ala Ile Leu Ser Val Ser Pro Gly
105       1           5           10           15
106   Glu Arg Val Ser Phe Ser Cys Arg Ala Ser Gln Phe Val Gly Ser Ser
107           20           25           30
108   Ile His Trp Tyr Gln Gln Arg Thr Asn Gly Ser Pro Arg Leu Leu Ile
109           35           40           45
110   Lys Tyr Ala Ser Glu Ser Met Ser Gly Ile Pro Ser Arg Phe Ser Gly
111           50           55           60
112   Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Thr Val Glu Ser
113       65           70           75           80
114   Glu Asp Ile Ala Asp Tyr Tyr Cys Gln Gln Ser His Ser Trp Pro Phe
115           85           90           95
116   Thr Phe Gly Ser Gly Thr Asn Leu Glu Val Lys
117           100          105
119 <210> SEQ ID NO: 4
120 <211> LENGTH: 357
121 <212> TYPE: DNA
122 <213> ORGANISM: Mus Balb/c
123 <220> FEATURE:
124 <221> NAME/KEY: CDS
125 <222> LOCATION: (1)...(357)
126 <400> SEQUENCE: 4
127   gaa gtg aag ctt gag gag tct gga gga ggc ttg gtg caa cct gga gga      48
128   Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
129       1           5           10           15
130   tcc atg aaa ctc tcc tgt gtt gcc tct gga ttc att ttc agt aac cac      96
131   Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
132           20           25           30
133   tgg atg aac tgg gtc cgc cag tct cca gag aag ggg ctt gag tgg gtt      144
134   Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
135           35           40           45
136   gct gaa att aga tca aaa tct att aat tct gca aca cat tat gcg gag      192
137   Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
138       50           55           60
139   tct gtg aaa ggg agg ttc acc atc tca aga gat gat tcc aaa agt gct      240
140   Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala
141       65           70           75           80
142   gtc tac ctg caa atg acc gac tta aga act gaa gac act ggc gtt tat      288
143   Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
144           85           90           95
145   tac tgt tcc agg aat tac tac ggt agt acc tac gac tac tgg ggc caa      336
146   Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
147           100          105          110

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,534

DATE: 02/07/2002

TIME: 09:06:46

Input Set : N:\Crif3\RULE60\10044534.raw

Output Set: N:\CRF3\02072002\J044534.raw

148 ggc acc act ctc aca gtc tcc 357
 149 Gly Thr Thr Leu Thr Val Ser
 150 115
 152 <210> SEQ ID NO: 5
 153 <211> LENGTH: 119
 154 <212> TYPE: PRT
 155 <213> ORGANISM: Mus Balb/c
 156 <400> SEQUENCE: 5
 157 Glu Val Lys Leu Glu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
 158 1 5 10 15
 159 Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Ile Phe Ser Asn His
 160 20 25 30
 161 Trp Met Asn Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Val
 162 35 40 45
 163 Ala Glu Ile Arg Ser Lys Ser Ile Asn Ser Ala Thr His Tyr Ala Glu
 164 50 55 60
 165 Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Ser Ala
 166 65 70 75 80
 167 Val Tyr Leu Gln Met Thr Asp Leu Arg Thr Glu Asp Thr Gly Val Tyr
 168 85 90 95
 169 Tyr Cys Ser Arg Asn Tyr Tyr Gly Ser Thr Tyr Asp Tyr Trp Gly Gln
 170 100 105 110
 171 Gly Thr Thr Leu Thr Val Ser
 172 115
 174 <210> SEQ ID NO: 6
 175 <211> LENGTH: 8
 176 <212> TYPE: PRT
 177 <213> ORGANISM: Homo sapiens
 178 <400> SEQUENCE: 6
 179 Gly Thr Leu Val Thr Val Ser Ser
 180 1 5
 182 <210> SEQ ID NO: 7
 183 <211> LENGTH: 7
 184 <212> TYPE: PRT
 185 <213> ORGANISM: Homo sapiens
 186 <400> SEQUENCE: 7
 187 Gly Thr Lys Leu Glu Ile Lys
 188 1 5
 190 <210> SEQ ID NO: 8
 191 <211> LENGTH: 20
 192 <212> TYPE: DNA
 193 <213> ORGANISM: Artificial Sequence
 194 <220> FEATURE:
 195 <223> OTHER INFORMATION: PCR oligonucleotides
 196 <400> SEQUENCE: 8
 197 cctggatacc tgtgaaaaga 20
 199 <210> SEQ ID NO: 9
 200 <211> LENGTH: 27
 201 <212> TYPE: DNA

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,534

DATE: 02/07/2002

TIME: 09:06:46

Input Set.: N:\Crf3\RULE60\10044534.raw

Output Set: N:\CRF3\02072002\J044534.raw

202 <213> ORGANISM: Artificial Sequence
 203 <220> FEATURE:
 204 <223> OTHER INFORMATION: PCR oligonucleotides
 205 <400> SEQUENCE: 9
 206 cctggtacct tagtcaccgt ctcctca 27
 208 <210> SEQ ID NO: 10
 209 <211> LENGTH: 27
 210 <212> TYPE: DNA
 211 <213> ORGANISM: Artificial Sequence
 212 <220> FEATURE:
 213 <223> OTHER INFORMATION: PCR oligonucleotides
 214 <400> SEQUENCE: 10
 215 aatagatatc tccttcaaca cctgcaa 27
 217 <210> SEQ ID NO: 11
 218 <211> LENGTH: 21
 219 <212> TYPE: DNA
 220 <213> ORGANISM: Artificial Sequence
 221 <220> FEATURE:
 222 <223> OTHER INFORMATION: PCR oligonucleotides
 223 <400> SEQUENCE: 11
 224 atcgggacaa agttggaaat a 21
 226 <210> SEQ ID NO: 12
 227 <211> LENGTH: 16
 228 <212> TYPE: DNA
 229 <213> ORGANISM: Artificial Sequence
 230 <220> FEATURE:
 231 <223> OTHER INFORMATION: PCR oligonucleotides
 232 <400> SEQUENCE: 12
 233 ggcggtctgg taccgg 16
 235 <210> SEQ ID NO: 13
 236 <211> LENGTH: 19
 237 <212> TYPE: DNA
 238 <213> ORGANISM: Artificial Sequence
 239 <220> FEATURE:
 240 <223> OTHER INFORMATION: PCR oligonucleotides
 241 <400> SEQUENCE: 13
 242 gtcaacaaca tagtcatca 19
 244 <210> SEQ ID NO: 14
 245 <211> LENGTH: 23
 246 <212> TYPE: DNA
 247 <213> ORGANISM: Artificial Sequence
 248 <220> FEATURE:
 249 <223> OTHER INFORMATION: PCR oligonucleotides
 250 <400> SEQUENCE: 14
 251 cacaggtgtg tccccaagga aaa 23
 253 <210> SEQ ID NO: 15
 254 <211> LENGTH: 18
 255 <212> TYPE: DNA
 256 <213> ORGANISM: Artificial Sequence

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/044,534

DATE: 02/07/2002

TIME: 09:06:47

Input Set : N:\Crf3\RULE60\10044534.raw

Output Set: N:\CRF3\02072002\J044534.raw